

**Lista contribuții relevante ale absolvenților studiilor de doctorat in IT, care au obținut titlul de doctor, în perioada 2021-2025**

Nr. crt.	Titlul tezei	Anul absolvirii	Doctorand	Articole publicate	Conducător de doctorat
1.	Rețele de transport cu consolidări de fluxuri	2022	Stere Armand-Șerban	<ol style="list-style-type: none"><li>1. Oprea C., Roșca M., Stere A. Ș., Olteanu S., <i>Traffic Modeling in Urban Congested Areas</i>. In: Burnete N., Varga B. (eds) <i>Proceedings of the 4th International Congress of Automotive and Transport Engineering (AMMA 2018)</i>, pag 766–774, 2019.</li><li>2. Roșca, M., Oprea, C., Petrescu, R., Burciu, S., Stere, A., <i>Improving Safety and Traffic Conditions on National Roads Passing through Towns without Bypass</i>, <i>Procedia Manufacturing</i>, 46, 217-224, 2020.</li><li>3. Stere, A. Ș., <i>Configurarea rețelelor hub-and-spoke în transporturile terestre</i>, <i>Tendințe ale cercetării științifice în ingineria transporturilor vol. 2 / coord.: Mihaela Popa, Vasile Dragu, Dorinela Costescu</i>, Editura Politehnica Press, București, 2020, ISBN 978-606-515-942-6.</li><li>4. Stere, A. Ș., Olteanu, S., <i>Mathematical framework for determining optimal variant of train formation plan</i>, <i>Solid State Technology</i>, Vol. 63, No.6, pag.19359–19368, 2020.</li><li>5. Stere, A. Ș., Roman, E. A., <i>Distribution of resources for equipping handling fronts in rail consolidation terminal</i>, <i>IOP Conf. Series: Materials Science and Engineering</i>, Volume 1037, Issue 1, 2021.</li><li>6. Stere, A. Ș., <i>Train formation plan on hub – and – spoke network configuration</i>, <i>U.P.B. Sci. Bull., Series D</i>, Vol. 83, Iss. 2, 2021.</li><li>7. Costescu, D., Stere, A. Ș., Șerban, A., <i>Network of dedicated bus lanes: a solution to increase the accessibility of the urban intermodal transport</i>, <i>Romanian Journal of Transport Infrastructure</i> (în curs de publicare).</li><li>8. Stere, A. Ș., Harpalet, O., <i>Transport demand modelling in networks with flows consolidation</i>, <i>VIII International Symposium NEW HORIZONS 2021 of Transport and Communications</i>, pag. 355–362, Doboș, 2021.</li><li>9. Stere, A. Ș., Harpalet, O., <i>The future of LUTI models</i>, <i>VIII International Symposium NEW HORIZONS 2021 of Transport and Communications</i>, pag. 135–140, Doboș, 2021.</li></ol>	Prof. emerit dr. ing. Șerban RAICU



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2.	Cercetări privind influența transmisiei asupra consumului energetic al automobilului	2021	Rențea Cristian-Alexandru	<ol style="list-style-type: none"><li>1. Rențea, C., Tucă.Al., Oprean, M., Bățăuș, M.V., <i>The study of the energetic performance in test cycles</i>, 11<sup>th</sup> Edition of The International Congress Of Automotive and Transport Engineering, Pitești, România, 2017, WOS: 00041981720087</li><li>2. Rențea C., Oprean M., Bățăuș M. V., Frățilă G., <i>The study of the energetic performance in test cycles considering a variable powertrain thermal regime</i>, The IVth International Congress of Automotive and Transport Engineering, Technical University of Cluj-Napoca, Romania, 2018. WOS: 000578264900075</li><li>3. Rențea C., Oprean M., Bățăuș M. V., Frățilă G., <i>The influence of multi-speed transmissions on electric vehicles energy consumption</i>, The 23rd edition of IManEE 2019 International Conference, Pitești, Romania, 2019. WOS: 000562599900105</li><li>4. Rențea C., Bățăuș M. V., Maican S., Oprean M., Frățilă G., <i>The influence of the hybridization factor on the energetic performance in test cycle</i>, The XXX-th SIAR International Automotive and Transport Engineering Congress, SMAT 2019, Craiova, România. WOS: 000528526600013</li><li>5. Rențea C., Bățăuș M. V., Maican S., Oprean M., Frățilă G., <i>The influence of the hybridization factor on vehicle energetic consumption for different e-gearbox configurations</i>, The 24th edition of IManEE 2020 International Conference (online edition), Atena, Grecia.</li><li>6. Rențea C., Bățăuș M. V., Maican S., Oprean M., Frățilă G. <i>Comparative study of different electric vehicle configurations in terms of energy consumption</i>, The 24th edition of IManEE 2020 International Conference (online edition), Atena, Grecia.</li></ol>	Prof. univ. dr. ing. Frățilă Gheorghe
3.	Cercetări privind îmbunătățirea performanțelor aerodinamice ale autovehiculelor	2021	Ilea Laurențiu	<ol style="list-style-type: none"><li>1. Study on the Influence of the Convoy Rolling over Aerodynamic Resistance, (Studiu influenței unui formatiuni tip convoi asupra rezistenței aerodinamice), Iozsa Daniel, Stan Cornelia, Ilea Laurentiu / CAR2017</li><li>2. The aerodynamic of passenger vehicles with enclosed rear wheels, (Aerodinamica vehiculelor pentru pasageri cu pasaj închis al roților spate), Ilea Laurentiu, Iozsa Daniel /ACME 2018</li><li>3. Wheels aerodynamics and impact on passenger vehicles drag coefficient (Aerodinamica roților și impactul lor pentru coeficientul aerodinamic al vehiculelor pentru pasageri), L. Ilea and D. Iozsa /ACME 2018</li></ol>	Prof. univ. dr. ing. Frățilă Gheorghe



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				<ol style="list-style-type: none"><li>4. The impact of the wheel's rim on the aerodynamics of passenger vehicles (Influenta jantelor in aerodinamica vehiculelor pentru pasageri) Laurentiu Ilea and Daniel Iozsa / AMMA 2018</li><li>5. CFD study of aerodynamic sensitivity to air deviation angle for a hatchback vehicle (Studiu CFD al sensibilitatii aerodinamice la devierea unghiulara a directiei aerului pentru un vehicul tip hatchback), L. Ilea, D. Iozsa, C. Stan and G. Fratila/ IMANEE 2019</li><li>6. CFD study on wheel aerodynamic performance in side wind conditions for a hatchback vehicle (Studiu CFD al aerodinamicii rotilor in conditii de vant lateral pentru un vehicul tip hatchback), L. Ilea, D. Iozsa, C. Stan and G. Fratila / IMANEE 2019</li><li>7. Influence of warning lights for intervention vehicles on aerodynamic performance (Influenta luminilor de avertizare pentru vehicule de interventie in performanta aerodinamica), D. Iozsa, L. Ilea and G. Fratila / ACME 2020</li><li>8. An aerodynamic theoretical study on exterior accessories of intervention vehicles (Un studiu aerodinamic teoretic asupra infleentei accesoriilor exterioare pentru vehicule de interventie), Laurentiu Ilea, Daniel Iozsa and Gheorghe Fratila / IMANEE 2021</li></ol>	
4.	Cercetări privind vibrațiile sistemului roată-șină	2021	Cruceanu Ioan-Cristian	<ol style="list-style-type: none"><li>1. Cătălin Cruceanu, Camil Crăciun, Ioan Cristian Cruceanu, <i>Effects of braking characteristics on the longitudinal dynamics of short passenger trains</i>, Book Chapter in Rail Transport Systems Approach, Edited by: Sladkowski, A., Book Series: Studies in Systems Decision and Control, Volume 87, 2017, pp. 3-33, Publisher Springer International Publishing AG, Gewerbestrasse 11, Cham, Ch-6330, Switzerland, ISBN 978-3-319-51502-1, 978-3-31951501-4, ISSN 2198-4182. Accession number WOS: 000417897300002</li><li>2. Mădălina Dumitriu, Ioan Cristian Cruceanu, <i>Experimental analysis of vertical vibration of railway bogie</i>, în curs de publicare în Communications – Scientific Letters of the University of Žilina, Issue 4/2021 (october 2021), ISSN 1335-4205. Revistă indexată BDI: SCOPUS, Ebsco Host. SCOPUS: Cite Score: 2.1/2020; SCImago Journal Rank (SJR): 0.288/2020; Source Normalized Impact per Paper (SNIP): 0.772/2020</li><li>3. Mădălina Dumitriu, Ioan Cristian Cruceanu, Dorina Folega, <i>Experimental study of the bogie vertical vibration – correlation between bogie frame accelerations and wheelsets accelerations</i>, UPB Scientific Bulletin, Series D: Mechanical Engineering, Vol. 83, Issue 2,</li></ol>	Prof. dr. ing. Traian Mazilu



Nr. crt.	Titlul tezei	Anul absolvirii	Doctorand	Articole publicate	Conducător de doctorat
				<p>2021, pp. 83-94, ISSN 1454-2358. Revistă indexată BDI: Ulrich's International Periodicals Directory, Scopus, Inspec, Metadex, Elsevier Sciences Bibliographic Databases, Engineering Village, Cambridge Scientific Abstracts, Compendex. Journal metrics SCOPUS: Cite Score: 0.6/2020; SCImago Journal Rank (SJR): 0.149/2020; Source Normalized Impact per Paper (SNIP): 0.316/2020 Articol indexat SCOPUS</p> <p>4. Mădălina Dumitriu, Ioan Cristian Cruceanu, <i>Effect of vertical track irregularities on the vibration of railway bogie</i>, UPB Scientific Bulletin, Series D: Mechanical Engineering, Vol. 81, Issue 1, 2019, pp. 67-78, ISSN 1454-2358. Revistă indexată BDI: Ulrich's International Periodicals Directory, Scopus, Inspec, Metadex, Elsevier Sciences Bibliographic Databases, Engineering Village, Cambridge Scientific Abstracts, Compendex. Journal metrics SCOPUS: Cite Score: 0.6/2020; SCImago Journal Rank (SJR): 0.149/2020; SNIP: 0.316/2020 Articol indexat SCOPUS</p> <p>5. Mădălina Dumitriu, Ioan Cristian Cruceanu, <i>On the rolling noise reduction by using the rail damper</i>, Journal of Engineering and Technology Review, Vol. 10, Issue 6, 2017, pp. 87-95, ISSN 1791-2377. DOI: 10.25103/jestr.106.12 Revistă indexată BDI: SCOPUS, DOAJ, CERN, Google Scholar, EBSCO, ACS. Journal metrics SCOPUS: Cite Score: 1.2/2020; SCImago Journal Rank (SJR): 0.190/2020; SNIP: 0.491/2020 Articol indexat: SCOPUS, EBSCO</p> <p>6. Mădălina Dumitriu, Dorina Folega, Ioan Cristian Cruceanu, <i>Effects analysis of vertical track irregularities on bogie vibration</i>, ICAMaT 2020, București, publicat în IOP Conf. Series, Vol. 1018, 2021, Article 012001. DOI: 10.1088/1757-899X/1018/1/012001. Articol indexat: SCOPUS</p> <p>7. Ioan Cristian Cruceanu, Ștefan Sorohan, <i>Determination of the harmonic response of a railway wheelset using the finite element analysis method</i>, Procedia Manufacturing, Vol. 46, 2020, pp. 173-179. DOI: 10.1016/j.promfg.2020.03.026. Articol indexat: Web of Science, SCOPUS</p>	



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				<p>8. Mădălina Dumitriu, Marius Alin Ghiți, Ioan Cristian Cruceanu, <i>Experimental analysis of the vertical vibration of the railway bogie during braking</i>, Procedia Manufacturing, Vol. 46, 2020, pp. 49-54. DOI: 10.1016/j.promfg.2020.03.009</p> <p>9. Traian Mazilu, Ioan Cristian Cruceanu, <i>Numerical study of the interaction between a moving oscillator and an infinite beam on elastic foundation with bilinear characteristic</i>, IOP Conf. Series, Vol. 444, 2018, Article 042004. DOI: 10.1088/1757-899X/444/4/042004</p> <p>10. Traian Mazilu, Ioan Cristian Cruceanu, <i>Dynamics of a beam on elastic foundation – impact of the bilinear characteristic</i>, MATEC Web of Conferences, Vol. 178, 2018, Article 06008. DOI: 10.1051/mateconf/201817806008</p> <p>11. Cătălin Cruceanu, Camil Crăciun, Ioan Cristian Cruceanu, <i>Effects of mechanical wheel slide protection devices action on railway vehicles braking process</i>, Applied Mechanics and Materials, Vols. 809-810, 2015, pp. 1085-1090. DOI: 10.4028/www.scientific.net/AMM.809-810.1085</p> <p>12. Mădălina Dumitriu, Ioan Cristian Cruceanu, <i>Analiza vibrațiilor verticale ale boghiului Minden-Deutz pe baza datelor experimentale</i>, Simpozionul Național de Material Rulant de Cale Ferată – ediția XVII-a, București 2019, Editura MatrixRom.</p> <p>13. Mădălina Dumitriu, Ioan Cristian Cruceanu, <i>Metode și tehnici de atenuare a zgomotului emis de șină</i>, Simpozionul Național de Material Rulant de Cale Ferată – ediția XV-a, București 2017.</p> <p>14. Camil Crăciun, Ioan Cristian Cruceanu, Bogdan Voiculescu, <i>Vehiculele feroviare neconvenționale monorail din Wuppertal</i>, Simpozionul Național de Material Rulant de Cale Ferată – ediția XV-a, București 2017.</p> <p>15. Traian Mazilu, Ioan Cristian Cruceanu, <i>Tehnici de măsurare a zgomotului la vehiculele feroviare</i>, Simpozionul Național de Material de Cale Ferată – ediția XIV-a, București 2016.</p>	
5.	Cercetări privind determinarea performanțelor dinamice și energetice ale	2024	Ancuța Alexandru-Adrian	<p>1. Danciu, Gr., Ancuța, A.A., „Optimisation Analysis of the Hybrid Vehicles Powertrain” – Congresul EV2019, Publicată în IEEE Xplore la 11.11.2019, Cod 19136028, accesibilă la <a href="https://doi.org/10.1109/EV.2019.8893117">https://doi.org/10.1109/EV.2019.8893117</a>.</p>	Prof.dr.ing. Gheorghe Frățilă



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	autovehiculelor electrice			<ol style="list-style-type: none"><li>2. Ancuța, A.A., Danciu, Gr., Frățilă G., „Modeling and simulation of an electric propulsion system equipped with Fuel Cell” – Conferința AITS 2021, Universitatea Tehnică din Chișinău. Publicată în <i>IOP Conf. Ser.: Mater. Sci. Eng.</i> 1220 012011, DOI 10.1088/1757-899X/1220/1/012011.</li><li>3. Ancuța, A.A., Voloacă, Ș., Danciu, Gr., Frățilă G., „Modeling the characteristics of an electric propulsion system for a small electric vehicle” – Congresul ICOME, Universitatea din Craiova, Facultatea de Mecanică, 2022.</li><li>4. Ancuța, A.A., Voloacă, Ș., Danciu, Gr., Frățilă G., „Simulation of the Parameters of a Lithium-ion Battery that Equips an Electric Vehicle” – Congresul EAEC-MVT, Universitatea din Timișoara, 2022.</li><li>5. Minzatu, C., Nișulescu, V., Bancă, G., Toma, M., Rențea, C., Ancuța, A.A., „Research Regarding The Simulation Of The Autonomy For The Electric Vehicles In The Case Of The WLTC Test Cycle” – Congresul EAEC-MVT, Universitatea din Timișoara, 2022.</li><li>6. Voloacă, Ș., Toma, M., Ancuța, A.A., „The Optimization of a Cost-Effective Journey Data Recorder Used in the Automotive Industry” – publicată în <i>Revista Ingineria Automobilului</i> Nr.66, martie 2023, ISSN 1842-4074, WOS:001156834100007.</li><li>7. Ancuța, A.A., „Analysis of Thermal Influence on the Operation of a Li-Ion Battery Used by an Electric Vehicle” – 46th International Spring Seminar on Electronic Technology (ISSE), 10-14 Mai 2023, Timișoara, România, accesibilă în IEEE Xplore, DOI: <a href="https://doi.org/10.1109/ISSE57496.2023.10168455">https://doi.org/10.1109/ISSE57496.2023.10168455</a>, ISBN 979-8-3503-3484-5, ISSN 2161-2536.</li><li>8. Ancuța, A.A., Voloacă, Ș., Frățilă G., Danciu, Gr., „Analysis of Energetic and Traction Performances for an Electric Vehicle in Real Driving Conditions” – Congresul EAEC-ESFA, Universitatea Națională de Știință și Tehnologie POLITEHNICA București, Noiembrie 2023. Publicată în <i>IOP Conf. Ser.: Mater. Sci. Eng.</i>, 1303 012006, DOI 10.1088/1757-899X/1303/1/012006.</li></ol>	



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				9. Ancuța, A.A., Rențea, C.A., „The Influence Of The Two-Speed Transmission On The Performances Of An Commercial Electric Vehicle” – publicată în Revista Ingineria Automobilului Nr. 70, martie 2024, ISSN 1842-4074.	
6.	Transport maritim durabil prin optimizarea consumurilor	2023	Filimon Dragoș	<ol style="list-style-type: none"><li>1. Filimon D. (2023). Status of the Marinas' Development in the Southern Region of the Romanian Sea Coast: Implications for Sustainable Recreational Transport in the BlackSea.Sustainability.15(10):7979. <a href="https://doi.org/10.3390/su15107979">https://doi.org/10.3390/su15107979</a></li><li>2. Filimon D., Roșca E., Ruscă V.(2023) - Optimisation of fuel consumption for an offshore supply tug using a backtracking algorithm. Sustainability,MDPI (în curs de publicare)</li><li>3. Filimon, D. (2023). Energy and Cost Savings by Retrofitting the Lighting System of a Ship. YMER Journal,Volume 22 Issue 01, YMER    ISSN : 0044-0477</li><li>4. Filimon, D. (2023). Preliminary calculation method for the resistances of a ship. YMER Journal, Volume 22 : Issue 09, YMER    ISSN : 0044-0477</li><li>5. Filimon, D., Butoi, S., Popa, T. (2022). Sisteme electroenergetice de medie și înaltă tensiune. Editura CERONAV,Constanța , ISBN:978-606-8554-54-9, Manual curs specializare</li><li>6. Carp, D., Filimon D. (2020). About the foundations of mathematical modeling, "Prelegeri universitare susținute la cursul Inițiere în istoria și filosofia științei și tehnicii", Editura ExPonto, ISBN:978-606-598-848-4</li></ol>	Prof.dr. Doina Eufrosina Carp
7.	Cercetări privind siguranța pasivă a automobilelor	2021	Manea Ana-Maria	<ol style="list-style-type: none"><li>1. Manea A.M., Iozsa D., David V.C., Stan C., <i>Lateral impact behavior study of a car door</i>, The IVth International Congress of Automotive and Transport Engineering, Technical University of Cluj Napoca, România, 2018.</li><li>2. Manea A.M., Iozsa D., David V.C., Stan C., <i>Study on setting the structural components of the front compartment of the car body</i>, The 23rd edition of IManEE 2019 International Conference, Pitești, România, 2019.</li><li>3. Manea A.M., Iozsa D., Stan C., Teodorescu C., Frățilă Gh., <i>Mathematical model for study the behavior of the bodywork at impact</i>, The 30th SIAR International Automotive and Transport Engineering Congress, pp 214-220, SMAT, Craiova, România, 2019.</li><li>4. Manea A.M., Iozsa D., David V.C., Stan C., <i>The impact behavior of the crash boxes</i>, The 9th International Conference on Advanced Concepts in Mechanical Engineering – ACME 2020, Iași, România.</li></ol>	Prof.dr.ing. Gheorghe Frățilă



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				5. Manea A.M., Iozsa D., Stan C., <i>Simplified mathematical model for frontal impact study</i> , The 24th edition of IManEE 2020 International Conference (online edition), Atena, Grecia.	
8.	Studii teoretice și dezvoltarea sistemelor de diagnoză ON BOARD	2022	Cojocia-Flintoacă Ionuț	<ol style="list-style-type: none"><li>1. Cojocia Flintoaca, I., <i>Can over power supply lines on modern automobiles</i>, UPB Scientific Bulletin, Series C: Electrical Engineering and Computer Science, 2021, 83(1), pp. 187–198; ISI WOS:000628640200015 and BDI (Scopus).</li><li>2. Cojocia Flintoaca, I., <i>Drone parking spot finder</i>, UPB Scientific Bulletin, Series C: Electrical Engineering and Computer Science, 2020, 82(4), pp. 209–220; ISI WOS:000596151000017 and BDI (Scopus).</li><li>3. Cojocia Flintoaca, I., <i>Analyzing burst communication of diagnostic testers on a modern automotive CAN network</i>, The 6th international symposium on electrical and electronics engineering, IEEE 2019, pp. 1–4; <a href="http://www.iseee.ugal.ro/2019/files/Preliminary_FullProgram%20ISEEE%202019.pdf">http://www.iseee.ugal.ro/2019/files/Preliminary_FullProgram%20ISEEE%202019.pdf</a></li><li>4. Cojocia Flintoaca, I., <i>Automotive infotainment test automation using python</i>, VI-International European Conference on Interdisciplinary Scientific Research, 2022, Bucharest, Romania, pp. 1–8;</li></ol>	Prof. dr. ing. Corneliu Mihail Alexandrescu
9.	Metode și tehnici avansate pentru estimarea dinamicilor mobilității cotidiene	2023	Harpaletе Ovidiu-Laurențiu	<ol style="list-style-type: none"><li>1. Harpaletе Ovidiu-Laurențiu, 2021, <i>Urban Mobility Scenario Evaluation in a post-COVID-19 Era</i>, Journal of Engineering Sciences and Innovation, Civil Engineering and Transport Engineering, ed. AGIR, Vol. 6, issue 4/2021, pp. 431-448.</li><li>2. Harpaletе, Ovidiu-Laurențiu, Stere, Ș., <i>The future of LUTI models</i>, New Horizons Conference, Doboj, Republic of Srpska, Bosnia and Herzegovina, 26-27 septembrie 2021.</li><li>3. Stere, Ș., Harpaletе Ovidiu-Laurențiu, <i>Transport demand modelling in networks with flows consolidation</i>, New Horizons Conference, Doboj, Republic of Srpska, Bosnia and Herzegovina, 26-27 septembrie 2021.</li><li>4. Harpaletе Ovidiu-Laurențiu, 2022, <i>Modern Data Collection Techniques for Travel Surveys</i>, SSRN Open-Access Online.</li><li>5. Lixandroi, Elena-Claudia, Harpaletе, Ovidiu-Laurențiu, <i>Transport Network Modelling by Bond Graph</i>, 6th IFAC International Conference on Intelligent Control and Automation Sciences, 13-15 iulie 2022, Cluj-Napoca, România.</li></ol>	Prof. emerit dr. ing. Șerban Raicu



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				<p>6. Harpaletе Ovidiu-Laurențiu, 2023, <i>Methods to estimate urban accessibility in a medium size city. Case of Iași, Romania</i>, Buletinul UPB, U.P.B. Sci. Bull., Series D, Vol. 85, Iss. 2, 2023, ISSN 1454-2358.</p> <p>7. Harpaletе Ovidiu-Laurențiu, 2023, <i>Estimating Travel Demand With a Multimodal Transport Model Including e-Scooters in Iași, Romania</i>, PROMET – Traffic &amp; Transportation, Vol. 35, No. 3 (2023), pp. 349-363.</p>	
10.	Soluții pentru monitorizarea și diagnoza de la distanță a instalațiilor de centralizare electrodinamică	2024	Bădău Florin	<p>1. Florin Bădău, Borna Abramović, Angel Ciprian Cormoș, and V. Iordache, "Management of Urban and Regional Rail: Case Study Bucharest," <i>Logi</i>, vol. 11, no. 2, pp. 120–131, Nov. 2020</p> <p>2. Răzvan Andrei Gheorghiu, Florin Bădău, and V. Iordache, "Applicability of Magnetic Sensors in Interlocking Systems," <i>Sensors</i>, vol. 22, no. 12, pp. 4314–4314, Jun. 2022, WOS: 000818179400001</p> <p>3. Florin BĂDĂU, "Railway Interlockings – A Review of the Current State of Railway Safety Technology in Europe," <i>Promet</i>, vol. 34, no. 3, pp. 443–454, Jun. 2022, WOS: 000810060800007</p> <p>4. F. Bădău, V. A. Stan and R. A. Gheorghiu, "Energy efficiency analysis of relay railway interlockings," 2023 15th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Bucharest, Romania, 2023, pp. 1–4,</p> <p>5. F. Bădău, V. Iordache, V. A. Stan and A. C. Cormoș, "Ladder Logic Implementation for Romanian Railway Interlockings," 2024 16th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Iași, Romania, 2024.</p> <p>6. V. Iordache, M. Minea, R. A. Gheorghiu, F. Bădău, V. Stoica and V. A. Stan, "Assessing performance of long-range ZigBee for road infrastructure communications," 2024 16th International Conference on Electronics, Computers and Artificial Intelligence (ECAI), Iași, Romania, 2024.</p> <p>7. V. Iordache, M. Minea, R. A. Gheorghiu, A. C. Cormoș and F. Bădău, "Testing Bluetooth Low Energy v5 Capabilities For Connected Vehicles Applications," 2024 47th International Conference on Telecommunications and Signal Processing (TSP), Prague, Czech Republic, 2024.</p>	Prof.Dr.Ing. Corneliu Mihail Alexandrescu



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11.	Lanțuri logistice în transportul maritim de linie	2023	Băcioiu Alexandru-Ștefan	<ol style="list-style-type: none"><li>1. Alecu Toma, Alexandru Stefan Bacioiu, Iulian-Adrian Chirița, <i>Influence of trim and rudder angle on ship handling</i>, Scientific Bulletin of Naval Academy, Vol. XXII 2019, pg. 228-233.</li><li>2. P. S. Șerban, A. T. Nedelcu, A. Pocora and A. Ș. Bacioiu, <i>Comparison of CFD determined squat on sailing ship MIRCEA with empirical methods</i>, Scientific Bulletin of Naval Academy, Vol. XXII 2019, pg. 247-255.</li><li>3. Alexandru Stefan Bacioiu, Ionela Goia, <i>On adjustment of stowage plan with minimum resources</i>, 20th International Conference on Transport Science ICTS 2022 23rd and 24th May 2022, Conference Proceedings, Portorož, Slovenia.</li><li>4. Alexandru-Stefan Bacioiu, Ionela Goia, <i>Stability of the Ship Using Intact Stability Criteria and Empirical Formulas</i>, WSEAS Transactions on Engineering World, vol. 4, pp. 1-4, 2022.</li><li>5. Ionela Goia, Alexandru-Stefan Bacioiu, <i>The Analysis of Freight Forwarding Services Using the Business Process Modelling Tools. Study Case in Constanța Port</i>, WSEAS Transactions on Design, Construction, Maintenance, vol. 2, pp. 217-220, 2022.</li><li>6. Bacioiu Alexandru Stefan, <i>Automation and robotics for efficient container handling in port terminal: review</i>, The 27th edition of Innovative Manufacturing Engineering &amp; Energy International Conference, Chișinău, 12-14 October 2023 (accepted for publication in ISI Journal ACTA TECHNICA NAPOCENSIS Series: Applied Mathematics, Mechanics, and Engineering).</li></ol>	Prof.dr.ing. Mihaela Popa



Nr. crt.	Titlul tezei	Anul absolvirii	Doctorand	Articole publicate	Conducător de doctorat
12.	Studiul interacțiunii osie-cale de rulare la vehiculele feroviare de tracțiune	2022	Gheți Marius-Alin	<ol style="list-style-type: none"><li>1. Ionuț Vasile, Emil Tudor, Ion Sburlan, Marius Alin Gheți, Gabriel Popa, <i>Experimental Validation of LiDAR Sensors Used in Vehicular Applications by Using a Mobile Platform for Distance and Speed Measurements</i>, Sensors, vol. 21, issue 23, 2021, article number 8147. DOI: 10.3390/s21238147 WOS: 000735114400001</li><li>2. Traian Mazilu, Ionuț Radu Răcănel, Marius Alin Gheți, <i>Vertical interaction between a driving wheelset and track in the presence of the rolling surface harmonic irregularities</i>, Romanian Journal of Transport Infrastructure, Vol. 9, Issue 2, 2020, pp. 38–52. DOI: 10.2478/rjti-2020-0010 WOS: 000625343600003</li><li>3. Mădălina Dumitriu, Marius Alin Gheți, Ioan Cristian Cruceanu, <i>Experimental analysis of the vertical vibration of the railway bogie during braking</i>, Procedia Manufacturing, Vol. 46, 2020, pp. 49-54. DOI: 10.1016/j.promfg.2020.03.009 WOS: 000582466200008</li><li>4. Gabriel Popa, Marius Alin Gheți, <i>Locomotive diesel engine operation with optimal specific fuel consumption</i>, Procedia Manufacturing, Vol. 46, 2020, pp. 440-444. DOI: 10.1016/j.promfg.2020.03.064 WOS: 000582466200063</li><li>5. Mădălina Dumitriu, Marius Alin Gheți, <i>Cross-correlation analysis of the vertical accelerations of railway vehicle bogie</i>, Engineering, Procedia Manufacturing, Vol. 32, 2019, pp. 114-120. DOI: 10.1016/j.promfg.2019.02.191 WOS: 000471295800017</li><li>6. Mădălina Dumitriu, Marius Alin Gheți, <i>On the longitudinal vibration of the railway bogie</i>, MATEC Web of Conferences, Vol. 290, 2019, Article 08008. DOI: 10.1051/mateconf/201929008008 WOS: 000569367700098</li><li>7. Mădălina Dumitriu, Marius Alin Gheți, <i>Numerical study on the influence of suspension damping on the bogie vertical vibration</i>, IOP Conf. Series: Materials Science and Engineering, Vol. 564, 2019, Article 012105. DOI: 10.1088/1757-899X/564/1/012105 WOS: 000562599900001</li><li>8. Traian Mazilu, Marius Alin Gheți, <i>On the bending vibration of a train driving wheelset</i>, IOP Conf. Series: Materials Science and Engineering, 2019, Vol. 591, Article 012059. DOI: 10.1088/1757-899X/591/1/012059</li><li>9. Mădălina Dumitriu, Marius Alin Gheți, <i>Numerical study on the influence of primary suspension damping upon the dynamic behaviour of railway vehicles</i>, IOP Conf. Series: Materials Science and Engineering, Vol. 444, 2018, Article 042001. DOI: 10.1088/1757-899X/444/4/042001</li></ol>	Prof.dr.ing. Traian Mazilu



Nr. crt.	Titlul tezei	Anul absolvirii	Doctorand	Articole publicate	Conducător de doctorat
				<p>10. Gabriel Popa, Sorin Arsene, Marius Alin Gheți, <i>Dynamic pantograph behaviour on high-speed electric locomotives</i>, IOP Conf. Series: Materials Science and Engineering, Vol. 444, 2018, Article 072011. DOI: 10.1088/1757-899X/444/7/072011</p> <p>11. Mădălina Dumitriu, Marius Alin Gheți, <i>Influence of the interference of bounce and pitch vibrations upon the dynamic behaviour in the bogie of a railway vehicle</i>, IOP Conf. Series: Materials Science and Engineering, Vol. 400, 2018, Article 042020. DOI: 10.1088/1757-899X/400/4/042020</p> <p>12. Sorin Arsene, Ioan Sebeșan, Gabriel Popa, Marius Alin Gheți, <i>Considerations on studying the loads on the motor bogie frame</i>, IOP Conf. Series: Materials Science and Engineering, Vol. 400, 2018, Article 042003. DOI: 10.1088/1757-899X/400/4/042003</p> <p>13. Mădălina Dumitriu, Marius Alin Gheți, <i>Evaluation of the vertical vibrations behaviour of the bogie at failure of the dampers in the primary suspension of the railway vehicle</i>, MATEC Web of Conferences, Vol. 178, 2018, Article 06001. DOI: 10.1051/mateconf/201817806001</p> <p>14. Emil Tudor, Ionuț Vasile, Gabriel Popa, Marius Alin Gheți, <i>LiDAR sensors used for improving safety of electronic-controlled vehicles</i>, ATEE 2021, Article number 9425123. DOI: 10.1109/ATEE52255.2021.9425123</p> <p>15. Marius Alin Gheți, Traian Mazilu, <i>Torsion frequency response function of a train driving wheelset</i>, IOP Conf. Series: Materials Science and Engineering, Vol. 997, 2020, Article 012044. DOI: 10.1088/1757-899X/997/1/012044</p> <p>16. Traian Mazilu, Marius Alin Gheți, <i>Theoretical assessment of vertical interaction between a wheelset and track: Influence of the track damping model</i>, EUROLYN 2020, Vol. 2, 2020, pp. 2667-2679.</p> <p>17. Marius Alin Gheți, Gabriel Popa, Sorin Arsene, <i>Electric drive solution for short distance passenger railway vehicles on non-electrified or mixed lines</i>, EV 2019, Article number 88930212019. DOI: 10.1109/EV.2019.8893021</p> <p>18. Traian Mazilu, Marius Alin Gheți, Mihai Cornel Leu, <i>Influence of elastic supports on the dynamic response of two rails connected with joint bars</i>, U.P.B. Sci. Bull., Series D, Vol. 83, Iss. 3, 2021.</p>	



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13.	Cercetări privind creșterea calității transportului public urban de călători	2022	Șerban Marian – Alin	<ol style="list-style-type: none"><li>1. Costescu, D., Stere, A. Ș., Șerban, M.A., (2021) <i>Network of dedicated bus lanes: a solution to increase the accessibility of the urban intermodal transport</i>, Article No. 1, Romanian Journal of Transport Infrastructure, Vol. X, 2021, No.2, WOS:000803240400003</li><li>2. Indexate în alte baze de date: Șerban, M.A., (2021) <i>The use of the genetic algorithms for optimizing public transport schedules in congested urban areas</i>, IOP Conf. Series: Materials Science and Engineering 1037 (2021) 012062,</li><li>3. Șerban, M.A., (2022) <i>Impact of inclusive services of urban bus transportation on users and operator</i>, Scientific Bulletin, Series D, Issue 3, vol. 3, pp. 207-218 <a href="https://www.scientificbulletin.upb.ro/rev_docs_arhiva/rezd50_811396.pdf">https://www.scientificbulletin.upb.ro/rev_docs_arhiva/rezd50_811396.pdf</a></li><li>4. Șerban, M.A., (2021) <i>Methods, Instruments in Evaluating the Satisfaction Index of Passengers in Urban Public Transport</i>, Advances in Science and Technology, ISSN: 1662-0356, Vol. 110, pp 71-80</li></ol>	Prof.dr.ing. Mihaela Popa

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